Roll No. ....

41267

B. Sc. (Hons.) Chemistry 4th Semester Examination – May, 2019

BOTANY

Paper : CH(H)-404 Opt. - i

| *Time : Three hours*] | [*Maximum Marks : 40* |

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is **compulsory**. Attempt **four** more questions, selecting **one** from each Unit. All questions carry equal marks.

1. Explain the following terms : 1 × 8 = 8

   (i) Genetic diversity

   (ii) Germplasm

   (iii) Legumes

   (iv) Caryopsis

   (v) Saffron

   (vi) Adulterants

   (vii) Ethnobotany

   (viii) Atropine

UNIT – I

2. Give the names of World primary centers of origin of cultivated crops as proposed by vavilov. 8

3. Write short notes on the following :

   (i) Crop domestication and loss of genetic diversity. 4

   (ii) Importance of weeds in germplasm diversity 4

UNIT – II

4. Give general account of legumes and discuss their importance to man and ecosystem. 8

5. Write short notes on any *two* of the following: 4×2=8

   (i) Cultivation and uses of wheat

   (ii) Botany and uses of potato

   (iii) Chief pulses grow in India

UNIT – III

6. Give local name, botanical name family and part used of any four spices.   8

7. Write short notes on the following :   4 × 2 = 8

   (i)   Common adulterant of spices

   (ii) Processing of tea

UNIT – IV

8. Discuss the role of ethnobotany in   4 × 2 = 8

   (i)   Conservation of indigenous plant wealth

   (ii) Drug discovery

9. Give the description and uses of any *two* of the following Medicinal plants :   4 × 2 = 8

   (i)   *Azadirachta*

   (ii) *Emblica*

   (iii) *Withania*

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